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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/042,457	01/10/2002	Chang-Wen Cao	0462.1 - P - 5909	5535	
7590 05/04/2004			EXAM	EXAMINER	
Chang-Wen Cao 235 Chung - Ho			GOFF II,	GOFF II, JOHN L	
Box 8-24	10		ART UNIT	PAPER NUMBER	
Taipei,			1733	1733 DATE MAILED: 05/04/2004	
TAIWAN			DATE MAILED: 05/04/200		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)
	10/042,457	CAO, CHANG-WEN
Office Action Summary	Examiner	Art Unit
	John L. Goff	1733
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on 26 Fee</li> <li>2a) This action is FINAL.</li> <li>2b) This</li> <li>3) Since this application is in condition for allower closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro	•
Disposition of Claims		
4) Claim(s) 2 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) Claim(s) is/are allowed.  6) Claim(s) 2 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.	
<ul> <li>9) The specification is objected to by the Examine</li> <li>10) The drawing(s) filed on 26 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct</li> <li>11) The oath or declaration is objected to by the Examine</li> </ul>	e: a) accepted or b) objected or b) objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4)	

#### **DETAILED ACTION**

1. This action is in response to the amendment received 2/26/04. The previous objections to the drawings and specification and the previous 35 USC 112 rejections have been overcome. It is noted claim 2 requires "injection-molding upper engaging pieces at inner sides of the zipper strips and injection-molding lower engaging pieces at inner sides of the films". It is noted that while "upper engaging pieces at inner sides of the zipper strips" may read on merely molding zipper teeth, it appears applicant intends the language to require molding pieces such as those shown as reference numerals 17 and 18 in Figure 10. In light of this interpretation the reference to Kuse (U.S. Patent 5,536,343) only shows molding "lower engaging pieces at inner sides of the films" such that the previous rejection over Kuse in view of the admitted prior art has been withdrawn in favor of a new rejection over the admitted prior art in view of Kuse, it being noted the admitted prior art clearly shows (simultaneously) molding both types of engaging pieces.

#### **Drawings**

2. The drawings were received on 2/26/04. These drawings are acceptable.

## Specification

3. The substitute specification received on 2/26/04 has been entered.

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### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (Figures 1-4 and Specification pages 1-3) in view of Kuse (U.S. Patent 5,536,343).

The admitted prior art discloses a known method for forming upper and lower engaging pieces on a pair of zipper teeth strips (Figures 1-4). The admitted prior art teaches providing a pair of zipper strips wherein the inner side of each zipper strip has a connecting strip, providing the inner side of the zipper strips with zipper teeth, scraping part of the zipper teeth to create separated banks of zipper teeth, melting and coating by thermal pressing two films onto the spaces between the banks of zipper teeth, punching notches in the inner sides of the spaces between the banks of zipper teeth, guiding the pair of zipper strips onto an upper and lower injection mold, tensioning the zipper strips within the molds, injection molding (simultaneously) upper and lower engaging pieces on the zipper strips, removing the zipper strips from the injection mold, and cutting the zipper strips along the notches to form completed zippers (Figures 1-4 and Page 1, lines 15-24). The admitted prior art is silent as to forming a hole, i.e. not removing the connecting strip, in the zipper strips as an alternative to forming a notch. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a hole (i.e. not removing the connecting strip) in each zipper strip as opposed to forming a notch as it is known in the art to form a hole in a zipper strip in the same location as the notch

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wherein the hole is used to precisely position the zipper strip within an injection mold for molding engaging pieces as shown by Kuse.

Kuse discloses a method for forming engaging pieces on a pair of zipper teeth strips (slide fastener chains) to form a zipper (slide fastener) wherein the inner lateral side of each zipper teeth strip is provided with holes so that the zipper teeth strips are precisely positioned within an injection molding apparatus for molding the engaging pieces (Figure 1 and Column 6,lines 30-47 and Column 14, lines 18-25). Kuse teach a method comprising providing a pair of continuous zipper strips having spaced banks of continuous zipper teeth thereon (Column 14, lines 44-50), applying, e.g. by melting, two films to the space between banks (Figure 2 and Column 7, lines 1-7), punching holes at inner lateral sides of the films (Figure 5 and Column 7,lines 56-60 and Column 12, lines 38-40), guiding the pair of zipper strips in an upper and lower injection mold, tensioning and precisely positioning the zipper strips within the molds using the punched holes (Figure 1 and Column 8, lines 39-45 and Column 9, lines 48-58), injection molding engaging pieces on the zipper strips (Column 11, lines 50-56), removing the zipper strips from the injection mold, and cutting the zipper strips along the holes to form completed zippers (Figures 1 and 9-11).

# Response to Arguments

6. Applicant's arguments with respect to claim 2 have been considered but are moot in view of the new ground(s) of rejection. Applicant argues, "However, referring to the attachment drawing, it is shown that in the manufacturing process of the present invention, the connecting strip 13 is never cut off, while in the citation USP 5,536,343, the connecting strips 34 are cut off

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in the manufacturing process. In Fig. 2 of the prior art, it is also illustrated that the connecting strips 93 are cut off in the manufacturing process. Thereby, this is the different of the present invention from the citations. As above said, not to cut off the connecting strip is for precisely positioned the zipper strips in the upper and lower molds." It is noted Kuse discloses a method for forming engaging pieces on a pair of zipper strips wherein the inner lateral side of each zipper strip (in the region of an applied reinforcing film) is provided with holes so that the zipper strips can be tensioned and precisely positioned within an injection molding apparatus for molding the engaging pieces. Kuse shows that after engaging pieces are molded the holes may cut (i.e. the connecting strip is cut) such that additional zipper parts may be molded. However, the general teaching of Kuse is that the holes are provided so that the zipper strips can be tensioned and precisely positioned within an injection molding apparatus for molding the engaging pieces, and this is the teaching that is applied to the admitted prior art.

### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John L. Goff** whose telephone number is **(571) 272-1216**. The examiner can normally be reached on M-F (7:15 AM - 3:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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John L. Goff April 28, 2004 JEFF H. AFTERGUT PRIMARY EXAMINER GROUP 1300